

Target RBI Grade B 2023 ✓

Top 150 Questions ✓✓

Quant

*Calculations*  
*3-5Q*  
Lecture 2 – Simplification + ✓✓

Number Series ✓✓



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# What we have to cover in Basic calculation

- Tables ✓ *1 to 10* 100
- Sum ✓
- Multiplication ✓ *1 to 10* 1000
- Square ✓ *1 to 25* *1 to 10*
- Square root ✓
- Cube ✓ *1 to 10* 13
- Cube root ✓
- Basic percentage ✓
- Basic fractions ✓
- Classification of Numbers ✓
- Basic rules of Surds and Indices ✓

↓  
Simplification  
Number Series  
Data Interpretation  
Quant

10 Months



1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



56	→	56
10	↓	112
15	↓	168
20	↓	224
25	↓	280
30	↓	336
35	↓	392
40	↓	448
45	↓	504
50	↓	<u>560</u>

11 to 100

$$\begin{array}{r} 93 \\ 47 \\ \hline 4371 \end{array}$$

24  
7

Practice  
↓  
10 minutes

$$\begin{array}{r} \checkmark \\ 56 \\ \checkmark \\ 7 \end{array}$$

$$\begin{array}{r} 89 \\ 7 \\ \hline 56 \quad 63 \\ \hline 623 \end{array}$$

$$\begin{array}{r} 98 \\ 9 \\ \hline 81 \quad 72 \\ \hline 882 \end{array}$$

$$\begin{array}{r} 35 \quad 42 \\ \hline 392 \end{array}$$

$$\begin{array}{r} 72 \\ 81 \\ \hline 5832 \end{array}$$

2

$$\begin{array}{r} 431 \\ 52 \\ \hline 2236 \end{array}$$

1 X 1  
↓  
3x2=6  
4x2+5x3=23  
4x5=20

# Square



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## Square

$$1^2 = 1$$

$$2^2 = 4$$

$$3^2 = 9$$

$$4^2 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

$$7^2 = 49$$

$$8^2 = 64$$

$$9^2 = 81$$

$$10^2 = 100 \checkmark$$

$$11^2 = 121$$

$$12^2 = 144$$

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

$$17^2 = 289$$

$$18^2 = 324$$

$$19^2 = 361$$

$$20^2 = 400$$

$$21^2 = 441$$

$$22^2 = 484$$

$$23^2 = 529$$

$$24^2 = 576$$

$$25^2 = 625$$



- $1^2 = 1$
- $2^2 = 4$
- $3^2 = 9$
- $4^2 = 16$
- $5^2 = 25$
- $6^2 = 36$
- $7^2 = 49$
- $8^2 = 64$
- $9^2 = 81$
- $10^2 = 100$

$4 \times 3 + 2$

$$\begin{array}{r} 43^2 \\ \underline{1609} \\ 24 \\ \hline 1849 \end{array}$$

$$\begin{array}{r} 43 \\ \underline{143} \\ 1849 \end{array}^2$$

$7 \times 4 + 2$

$$\begin{array}{r} 74^2 \\ \underline{4916} \\ 56 \\ \hline 5476 \end{array}$$

$83^2$

$$\begin{array}{r} 6409 \\ \underline{48} \\ 6889 \end{array}$$



# Square Root



Find the Square Root of following Numbers

$$\textcircled{1} \sqrt{\begin{array}{r} 1156 \\ \underline{9} \phantom{00} \\ 25 \phantom{00} \\ \underline{16} \phantom{00} \\ 40 \phantom{00} \\ \underline{36} \\ 0 \end{array}}$$

$$\begin{array}{c} \textcircled{34} \\ 36 \end{array}$$

$$\begin{array}{l} \sqrt{3^2=9} \\ \sqrt{4^2=16} \\ 3 \times 4 = 12 \end{array}$$

$$\textcircled{2} \sqrt{\begin{array}{r} 2025 \\ \underline{16} \phantom{00} \\ 46 \phantom{00} \\ \underline{40} \phantom{00} \\ 65 \phantom{00} \\ \underline{60} \\ 5 \end{array}}$$

$$\textcircled{45}$$

$$\begin{array}{l} \sqrt{4^2=16} \\ \sqrt{5^2=25} \end{array}$$

20

$$\begin{array}{l} \sqrt{6^2=36} \\ \sqrt{7^2=49} \end{array}$$

$$6 \times 7 = 42$$

$$\textcircled{3} \sqrt{\begin{array}{r} 3136 \\ \underline{25} \phantom{00} \\ 68 \phantom{00} \\ \underline{64} \phantom{00} \\ 40 \phantom{00} \\ \underline{36} \\ 4 \end{array}}$$

$$\begin{array}{c} 4 \\ \textcircled{56} \end{array}$$

$$\begin{array}{l} 5+6 \\ = 11 \\ \sqrt{5^2=25} \\ \sqrt{6^2=36} \end{array}$$

$$\textcircled{4} \sqrt{\begin{array}{r} 4489 \\ \underline{36} \phantom{00} \\ 82 \phantom{00} \\ \underline{81} \phantom{00} \\ 9 \end{array}}$$

$$\begin{array}{c} 63 \\ \textcircled{67} \end{array}$$

$$\begin{array}{l} \sqrt{1^2=1} \\ \sqrt{2^2=4} \\ \sqrt{3^2=9} \\ \sqrt{4^2=16} \\ \sqrt{5^2=25} \\ \sqrt{6^2=36} \\ \sqrt{7^2=49} \\ \sqrt{8^2=64} \\ \sqrt{9^2=81} \end{array}$$

Unit digit  
2, 3, 7, 8  
Perfect Squares  
X

# Cube



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Mon ✓  
Wed ✓  
Fri ✓

## Cube

$$\begin{aligned} 1^3 &= 1 \\ 2^3 &= 8 \\ 3^3 &= 27 \\ 4^3 &= 64 \\ 5^3 &= 125 \end{aligned}$$

$$\begin{aligned} 6^3 &= 216 \\ 7^3 &= 343 \\ 8^3 &= 512 \\ 9^3 &= 729 \\ 10^3 &= 1000 \end{aligned}$$

$$\begin{aligned} 11^3 &= 1331 \\ 12^3 &= 1728 \checkmark \\ 13^3 &= 2197 \\ 14^3 &= 2744 \\ 15^3 &= 3375 \end{aligned}$$



# Cube Root



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Find the cube root of following Numbers

①  $\sqrt[3]{32768}$   $\textcircled{32}$

$3^3 = 27$   
 $4^3 = 64$

②  $\sqrt[3]{79507}$   $\textcircled{43}$

③  $\sqrt[3]{157464}$   
 $5^3 = 125$   
 $6^3 = 216$

$\textcircled{54}$

$\textcircled{998}$

~~$157467$~~

$\textcircled{4}$   $\sqrt[3]{274625}$

Comment



# Percentage

24,00

$$10\% = 240$$

$$5\% = 120$$

$$1\% = 24$$

2400 -

$$100\% = 2400$$

$$50\% = 1200$$

$$25\% = 600$$

53% of 1800 → 18

$$50\% + 3\%$$

$$900 + 54$$

$$= 954$$

98% of 2750

$$\frac{98}{100} \times 2750$$

$$100\% - 2\%$$

$$= 2750 - 1\% \times 2$$

$$= 2750 - 55$$

$$= 2695$$

2695



$$\begin{aligned} & 69\% \text{ of } 1800 \\ & \downarrow \\ & 70\% - 1\% \\ & 7 \times 10\% \\ & 1260 - 18 \\ & = \underline{\underline{1242}} \end{aligned} \quad \underline{\underline{16}}$$



$$a\% \text{ of } b = b\% \text{ of } a$$

$$10\% \text{ of } 30 = 30\% \text{ of } 10$$

↓

3

↓

3

$$84\% \text{ of } 75$$

$$\frac{84}{100} \times 75$$

$$75\% \text{ of } 84 \rightarrow$$

↓

$$25\% \times 3$$

$$21 \times 3 = \underline{\underline{63}}$$





## Fractions

$$\boxed{1} = 100\%$$

$$\checkmark \frac{1}{2} = 50\% \checkmark$$

$$\checkmark \frac{1}{3} = 33\frac{1}{3}\% = 33.33\%$$

$$\checkmark \frac{1}{4} = 25\% \checkmark$$

$$\checkmark \frac{1}{5} = 20\% \checkmark$$

$$\checkmark \frac{1}{6} = 16\frac{2}{3}\% = 16.66\%$$

$$\frac{1}{7} = 14\frac{2}{7}\% = 14.28\%$$

$$\boxed{\frac{1}{8} = 12\frac{1}{2}\% = 12.5\%}$$

$$\frac{1}{9} = 11\frac{1}{9}\% = 11.11\%$$

$$\frac{1}{10} = 10\%$$

$$\frac{1}{11} = 9\frac{1}{11}\% = 9.09\%$$

$$\frac{1}{12} = 8\frac{1}{3}\% = 8.33\%$$

$$\frac{1}{13} = 7\frac{6}{13}\% = 7.69\%$$

$$\frac{1}{14} = 7\frac{1}{7}\% = 7.14\%$$

$$\frac{1}{15} = 6\frac{2}{3}\% = 6.66\%$$

$$\frac{1}{16} = 6\frac{1}{4}\% = 6.25\%$$

$$\frac{1}{17} = 5\frac{15}{17}\% = 5.89\%$$

$$\frac{1}{18} = 5\frac{5}{9}\% = 5.55\%$$

$$\frac{1}{19} = 5\frac{5}{19}\% = 5.26\%$$

$$\frac{1}{20} = 5\%$$

$$\frac{1}{24} = 4\frac{1}{6}\% = 4.16\%$$

$$\frac{1}{25} = 4\%$$

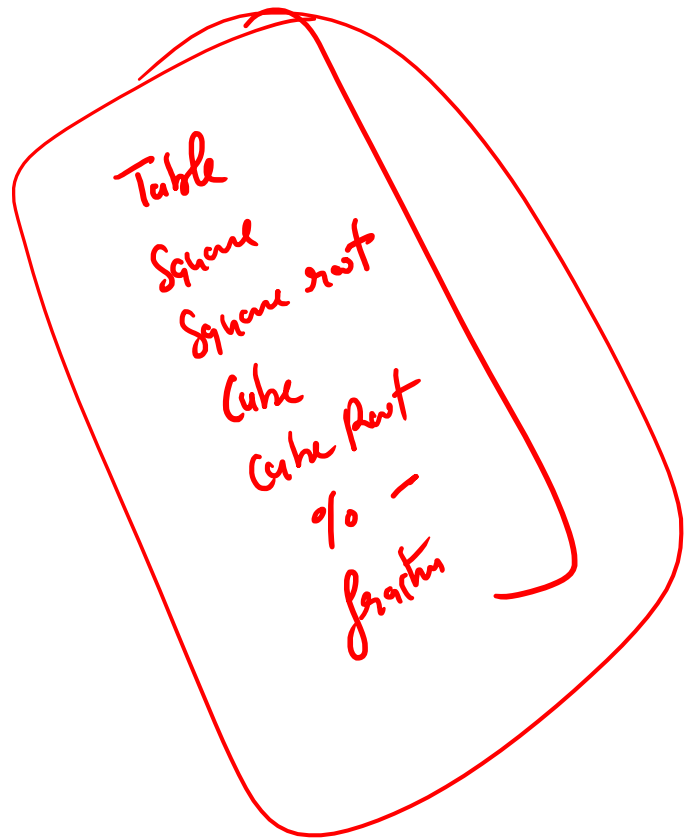
$$\frac{1}{30} = 3\frac{1}{3}\% = 3.33\%$$

$$\frac{1}{32} = 3\frac{1}{8}\% = 3.125\%$$

$$\frac{1}{40} = 2\frac{1}{2}\% = 2.5\%$$

$$\frac{1}{50} = 2\%$$





$$\frac{1}{9} = 11.11\% \quad \checkmark$$

$$\frac{2}{9} = 22.22\% \quad \checkmark$$

$$\frac{3}{9} = 33.33\% \quad \checkmark$$

$$\frac{4}{9} = 44.44\%$$

$$\frac{1}{9} \times 100$$

$$\frac{1}{8} = 12.5\%$$

$$87.5\%$$

$$\frac{7}{8}$$



What value should come in the place of (?) in the following questions?

Q.1) 30 % of 210 + 372 ÷ √961 + 1500 ÷ 4 = ?

[1] 250

[2] 350

[3] 450

[4] 550

[5] 650

3x10%

$$63 + \frac{372}{31} + \frac{1500}{4}$$

$$75 + 375 = \underline{\underline{450}}$$

BODMAS

$$\sqrt{961} = 31$$

3<sup>2</sup>=9  
4<sup>2</sup>=16



what will come in place of '?' in the following question?

Q.2) 56% of 325 – 12% of 800 + 4 =? % of 125

- [1] 32
- [2] 72
- [3] 148
- [4] 248
- [5] 392

$$\begin{aligned} & \text{325} \times \frac{56}{100} \\ & \downarrow \\ & 300\% + 25\% \\ & 168 + 14 \\ & = 182 \end{aligned}$$

$$182 - 96 + 4 = \frac{x}{100} \times 125$$

$$\frac{18}{96} \times \frac{4}{8} = x$$

72



Q3). In the given question contains a statement followed by Quantity I, Quantity II and Quantity III. Which of the following should be placed in the blank spaces of the expression "Quantity I \_\_\_ Quantity II \_\_\_ Quantity III" from left to right with respect to the above statements?

Quantity I: Value of  $(2^{30} - 2^{29})/2$

Quantity II: Value of  $2^{28}$

Quantity III: Value of  $(256 * 1024)$

- a) >, >
- b) =, <
- c) =, =
- d) <, >
- e) =, >

①  $\frac{2^{30} - 2^{29}}{2} = \frac{2^{29}(2^1 - 1)}{2} = \frac{2^{29}}{2^1} = 2^{29-1} = 2^{28}$  ✓

②  $2^{28}$

③  $2^8 \times 2^{10} = 2^{8+10} = 2^{18}$  ✓

$2^{28} = 2^{28} > 2^{18}$

2	1024
2	512
2	256
2	128
2	64
2	32
2	16
2	8
2	4
2	2



Q.4) Statement I :  $\sqrt[3]{5.832} + 35\% \text{ of } 6500 - x\% \text{ of } 1250 = 222.8$

Statement II :  $71.42\% \text{ of } 91 - 31.25\% \text{ of } 112 + 36^2 - 23.04 \times 17.99 = y$

Find the last digit of  $y^x$ .

- [1] 6
- [2] 4
- [3] 2
- [4] 8
- [5] None of the above

$\sqrt[3]{\frac{5832}{1000}}$

$1.8 + 1950 + 325 - \frac{x}{100} \times 1250 = 222.8$

$2276.8 - 222.8 = x \times \frac{25}{2}$

$\frac{2054 \times 2}{25}$

$x = 164.32$

$\frac{1}{7} = 14.28$

$6.25\% = \frac{1}{16}$

$\frac{36 \times 91}{16} = \frac{1176}{4} = 294$

$\frac{5}{2} \times 91 - \frac{5}{16} \times 112 + 1176 = 414$

$65 - 35 + 762 = 792$

$\frac{164.32}{792}$

$2^4 = 16$

Rem 21 →  
2 ✓  
3 ✓  
0 ✓ (4)



Direction (5 – 6): Read the following information carefully and answer the questions based on it.

A sequence of numbers is given to you as below:

18 (A) (B) (C) (D) 124

Where,  $A = P^2 - Q$

$B - A = (P + 1)^2 + Q$

$C - B = (P + 2)^2 + Q$

$D - C = (P + 3)^2 + Q$

$P = \text{HCF of } L \text{ and } M$ , where  $L$  and  $M$  are co-primes

$Q = \text{Smaller root of } K^2 - 2K - 8 = 0$

18 (A) (B) (C) (D) 124  
3 5 12 26

11, 17  
Co-Prime  
HCF = 1

$$A = (1)^2 - (-2) = 1 + 2 = 3$$

$$B - 3 = 4 - 2 \quad B = 2 + 3 = 5$$

$$C - 5 = 9 - 2 \quad C = 12$$

$$D - 12 = 16 - 2 \quad D = 26$$

$$P = 1$$

$$Q = -2$$

$$K^2 - 2K - 8 = 0$$

~~$$(K - 4)(K + 2) = 0$$~~

$$K^2 - 4K + 2K - 8 = 0$$

$$K(K - 4) + 2(K - 4) = 0$$

$$(K - 4)(K + 2) = 0$$

$$K = 4, -2$$

Q.5) How many numbers are divisible by 3, in the given sequence?

- A. 2
- B. 4
- C. 3
- D. 6
- E. None of these

Q.6) Find the value of  $(A^2 + 3B + 5C - 4D)$ .

- A. -20
- B. -10
- C. -18
- D. -30
- E. None of these

$$3^2 + 3(5) + 5(12) - 4(26)$$

$$9 + 15 + 60 - 104$$

$$84 - 104$$

$$= -20$$



Each question below contains a statement followed by Quantity I and Quantity II. You have to study the information along with the question and compare the value derived from Quantity I and Quantity II, then answer:

Q.7) Quantity I: Value of 'p' such that  $(\sqrt{a^p})^2 = \frac{a^4}{\sqrt{a^{16}}}$

$p = -4$

$$a^p = \frac{a^4}{(a^{16})^{\frac{1}{2}}} = \frac{a^4}{a^8} = a^{4-8} = a^{-4}$$

$a^p = a^{-4}$

$p = -4$

Quantity II: 1

[a] Quantity I > Quantity II

[b] Quantity I < Quantity II

[c] Quantity I  $\geq$  Quantity II

[d] Quantity I  $\leq$  Quantity II

[e] Quantity I = Quantity II or no relation

$$(a^m)^n = a^{mn}$$

$$a^m \times a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$





Q.8) Quantity I:  $\frac{a^3 - b^3}{a - b} - 3ab$

Quantity II:  $1 - \frac{1}{a} - \frac{1}{b}$

Note:  $a > 1 > b > 0$

[a] Quantity I > Quantity II

[b] Quantity I < Quantity II

[c] Quantity I  $\geq$  Quantity II

[d] Quantity I  $\leq$  Quantity II

[e] Quantity I = Quantity II or no relation

①  $\frac{a^3 - b^3}{a - b} - 3ab$

$a = 2 \quad b = \frac{1}{2}$

$$\frac{8 - \frac{1}{8}}{2 - \frac{1}{2}} - 3 \times 2 \times \frac{1}{2}$$

$$\begin{aligned} & \frac{21}{8} \times \frac{2}{3} - 3 \\ & \frac{21}{4} - 3 \\ & = \frac{9}{4} \end{aligned}$$

$1 - \frac{1}{a} - \frac{1}{b}$  ✓

$1 - \frac{1}{2} - \frac{1}{1} \times 2$

$1 - \frac{1}{2} - 2$

$= -1$  ✓

## Logics

- ① Sum
- ② Subtraction
- ③ Multiplication
- ④ Divide
- ⑤  $\times \pm$
- ⑥  $\div \pm$
- ⑦ Square
- ⑧ Cube

⑨ Square  $\pm$ ,  $\frac{\times}{\div}$

⑩ Cube  $\pm$ ,  $\frac{\times}{\div}$

⑪ Double / Triple Series

⑫ Illogical Series

Mimng term

Wrong term





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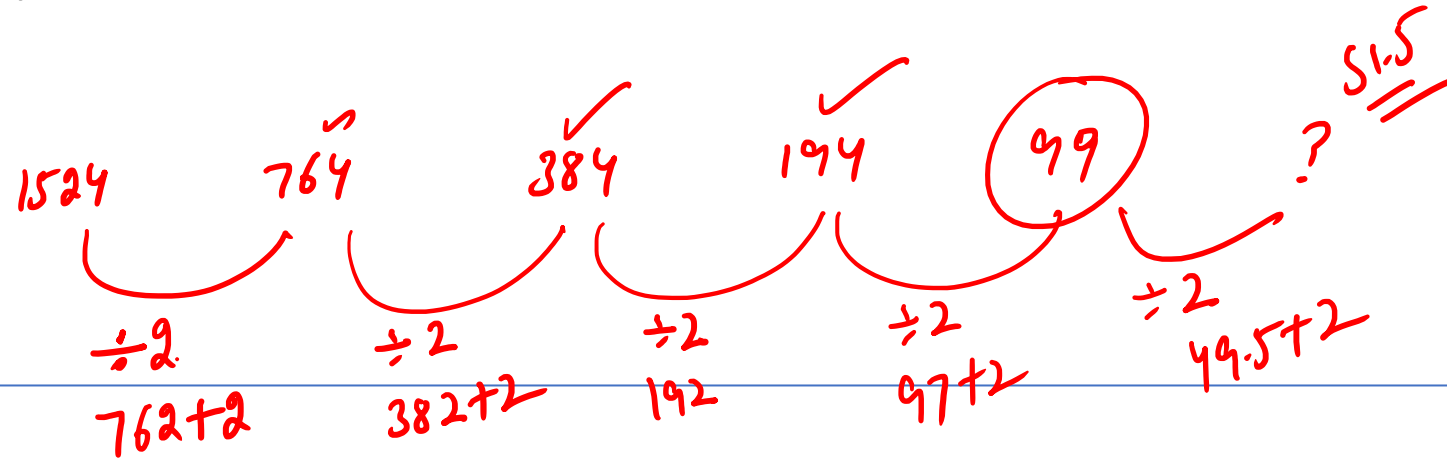


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What will come in place of question mark (?) in the following number series?

Q.9) 1524, 764, 384, 194, 99, ?

- [1] 78.75
- [2] 66.5
- [3] 58.25
- [4] 72.5
- [5] 51.5



Q.10) 48, 24, 24, 48, 192, ? , 24576

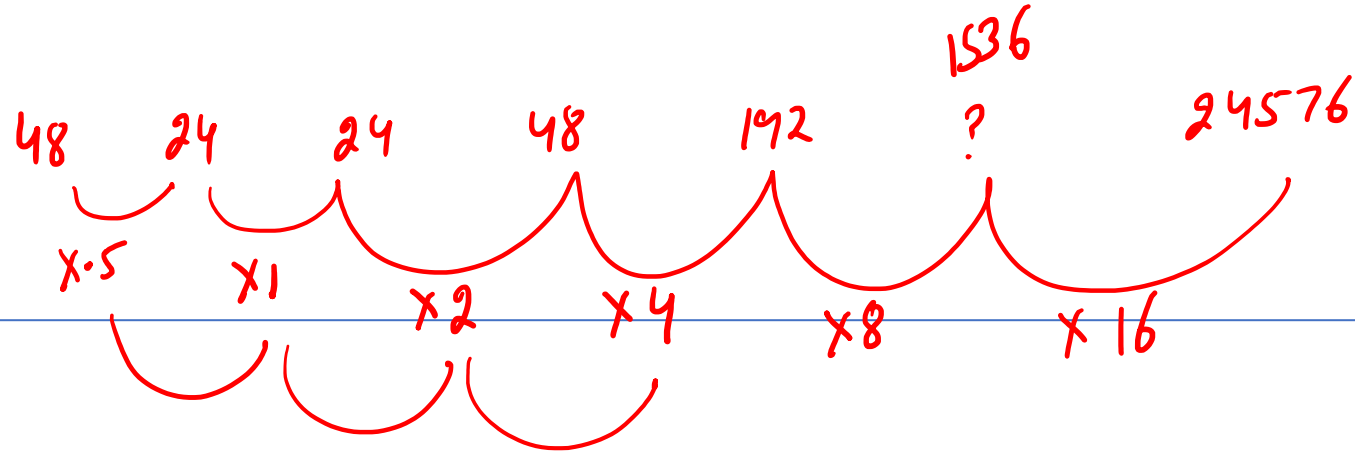
[1] 2178

[2] 1536

[3] 2592

[4] 3454

[5] 3820



Q.11) 2, 17, 121, 729, ?, 14601

- [1] 3649
- [2] 3278
- [3] 3962
- [4] 3783
- [5] 3564

Handwritten solution showing the sequence: 2, 17, 121, 729, ?, 14601.

Operations shown:

- $2 \times 8 + 1 = 17$
- $17 \times 7 + 2 = 121$
- $121 \times 6 + 3 = 729$
- $729 \times 5 + 4 = ?$
- $? \times 4 + 5 = 14601$

Intermediate values shown below the operations:

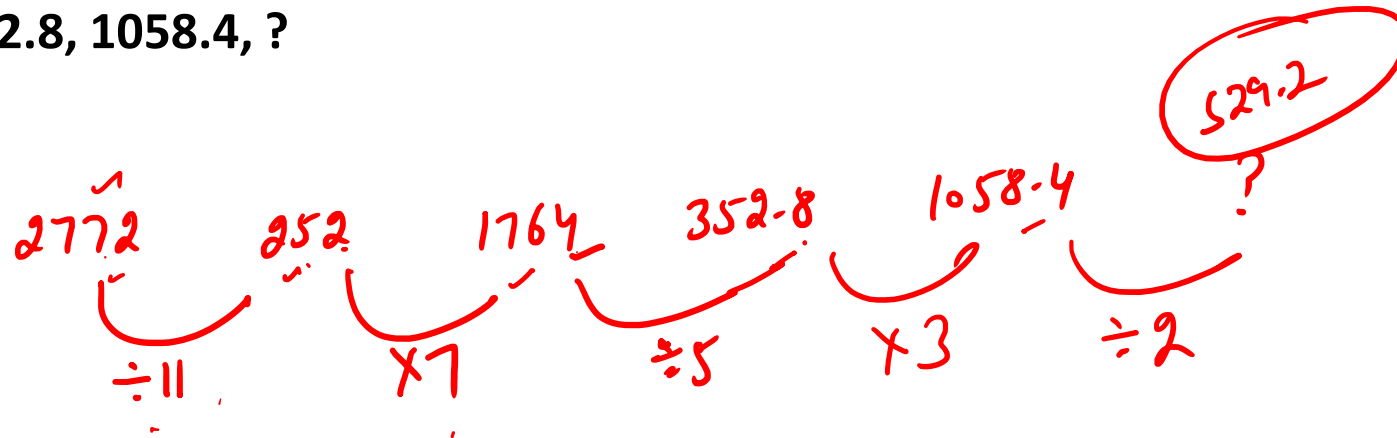
- Below  $2 \times 8 + 1$ :  $16 + 1$
- Below  $17 \times 7 + 2$ :  $119$
- Below  $121 \times 6 + 3$ :  $726$
- Below  $729 \times 5 + 4$ :  $3645 + 4$



What will come in place of question mark (?) in the following number series?

Q.12) 2772, 252, 1764, 352.8, 1058.4, ?

- [1] 423.3
- [2] 529.2
- [3] 539.6
- [4] 612.5
- [5] 456.6



Prime No.



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Q13). Direction: Find the wrong term in the given series:

800, 678, 579, 497, 434, 385, 349

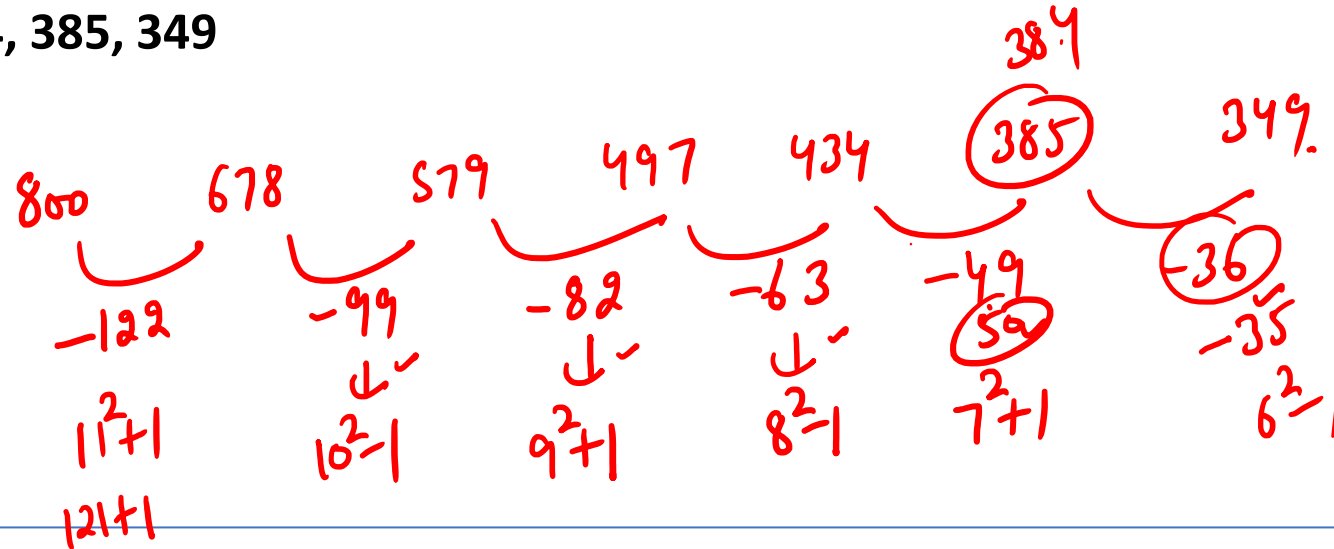
A. 494

B. 385

C. 800

D. 579

E. 349





Q.14) Given below are two series with a wrong term each. Find the sum of the wrong terms of the two series.

Series I : 10 13.5 23.5 41.5 77.5 149.5

Series II : 7 9 14 27 47 77 119

- [1] 37.5
- [2] 20
- [3] 27.5
- [4] 41.5
- [5] None of the above

Handwritten analysis for Series II:

$7 \xrightarrow{+2} 9 \xrightarrow{+5} 14 \xrightarrow{+13} 27 \xrightarrow{+20} 47 \xrightarrow{+30} 77 \xrightarrow{+42} 119$

$2^2+1, 2^2+2, 3^2+3, 4^2+4, 5^2+5, 6^2+6$

$13.5 - 14 = -0.5$   
 $14 - 27 = -13$   
 $27 - 47 = -20$   
 $47 - 77 = -30$   
 $77 - 119 = -42$

$13.5 - 14 = -0.5$   
 $14 - 27 = -13$   
 $27 - 47 = -20$   
 $47 - 77 = -30$   
 $77 - 119 = -42$

Handwritten analysis for Series I:

$10 \xrightarrow{+3.5} 13.5 \xrightarrow{+10} 23.5 \xrightarrow{+18} 41.5 \xrightarrow{+36} 77.5 \xrightarrow{+72} 149.5$

$10 \xrightarrow{+3.5} 13.5 \xrightarrow{+10} 23.5 \xrightarrow{+18} 41.5 \xrightarrow{+36} 77.5 \xrightarrow{+72} 149.5$

$13.5 - 10 = 3.5$   
 $23.5 - 13.5 = 10$   
 $41.5 - 23.5 = 18$   
 $77.5 - 41.5 = 36$   
 $149.5 - 77.5 = 72$

$13.5 - 10 = 3.5$   
 $23.5 - 13.5 = 10$   
 $41.5 - 23.5 = 18$   
 $77.5 - 41.5 = 36$   
 $149.5 - 77.5 = 72$

Q.15) Given below are two series both of which has one missing term each. Find the sum of these missing terms?

Series I : 5 7 17 ? 115 245

Series II : 4 4 10 34 ? 214

[1] 150

[2] 141

[3] 120

[4] 194

[5] 209

①

$$\begin{array}{cccccc}
 5 & 7 & 17 & 47 & 115 & 245 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +2 & +10 & +30 & +68 & +130 & \\
 1^3+1 & 2^3+2 & 3^3+3 & 4^3+4 & 5^3+5 & \\
 & & & & & 47 \\
 & & & & & 94 \\
 & & & & & \hline
 & & & & & 141
 \end{array}$$

②

$$\begin{array}{cccccc}
 4 & 4 & 10 & 34 & 94 & 214 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +0 & +6 & +24 & +60 & +120 & \\
 1^3-1 & 2^3-2 & 3^3-3 & 4^3-4 & 5^3-5 & \\
 & & & & & 94
 \end{array}$$

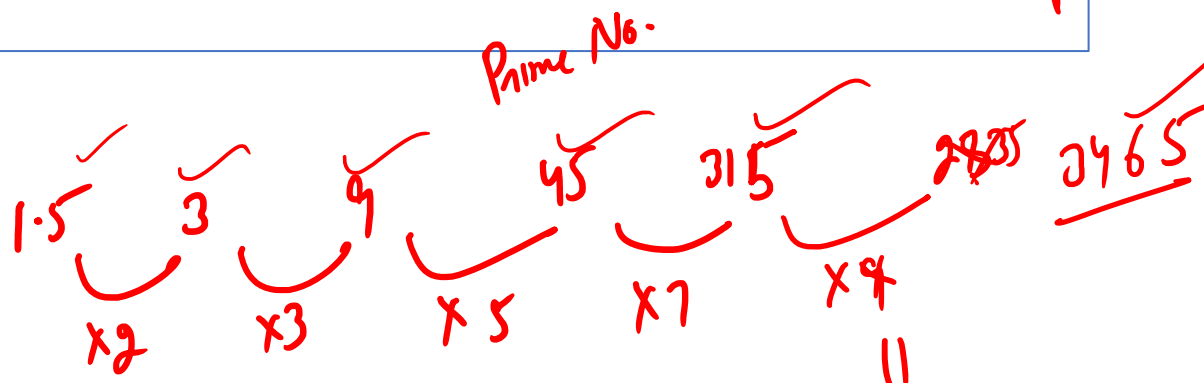
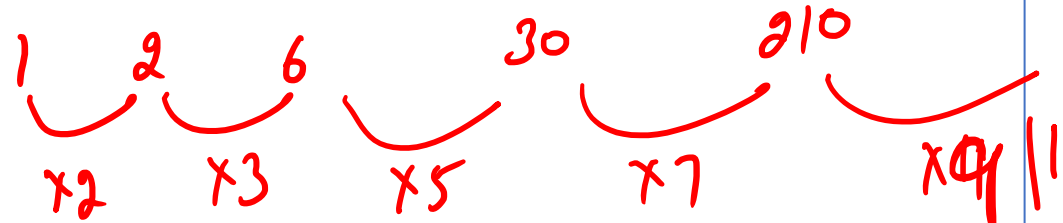


The below are two series. Series I follows a certain pattern, follow the same pattern in Series II and answer the question given below :

Q.16) Series I : 1, 2, 6, 30, 210

Series II : 1.5 ..... If 3465 is the  $n^{\text{th}}$  term find the value of  $n$ .

- [1] 5
- [2] 7
- [3] 6
- [4] 9
- [5] 11

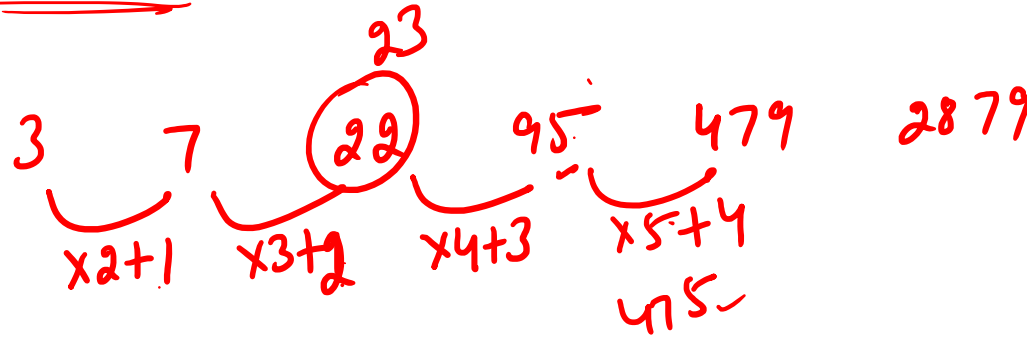


6th

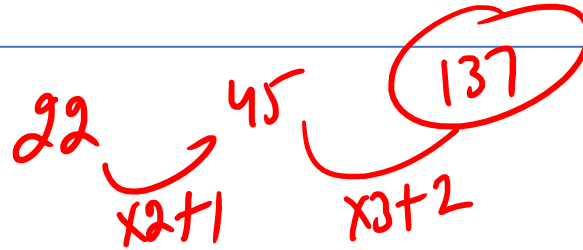
Q.17) A number series given below as I. A second number series as II having first term same as the wrong term of the series I. Find 3rd term of series II?

Series I. 3, 7, 22, 95, 479, 2879

- A. 541
- B. 137
- C. 561
- D. 551
- E. None of these



II



I.18-20) A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.18) What is the value of (f)?

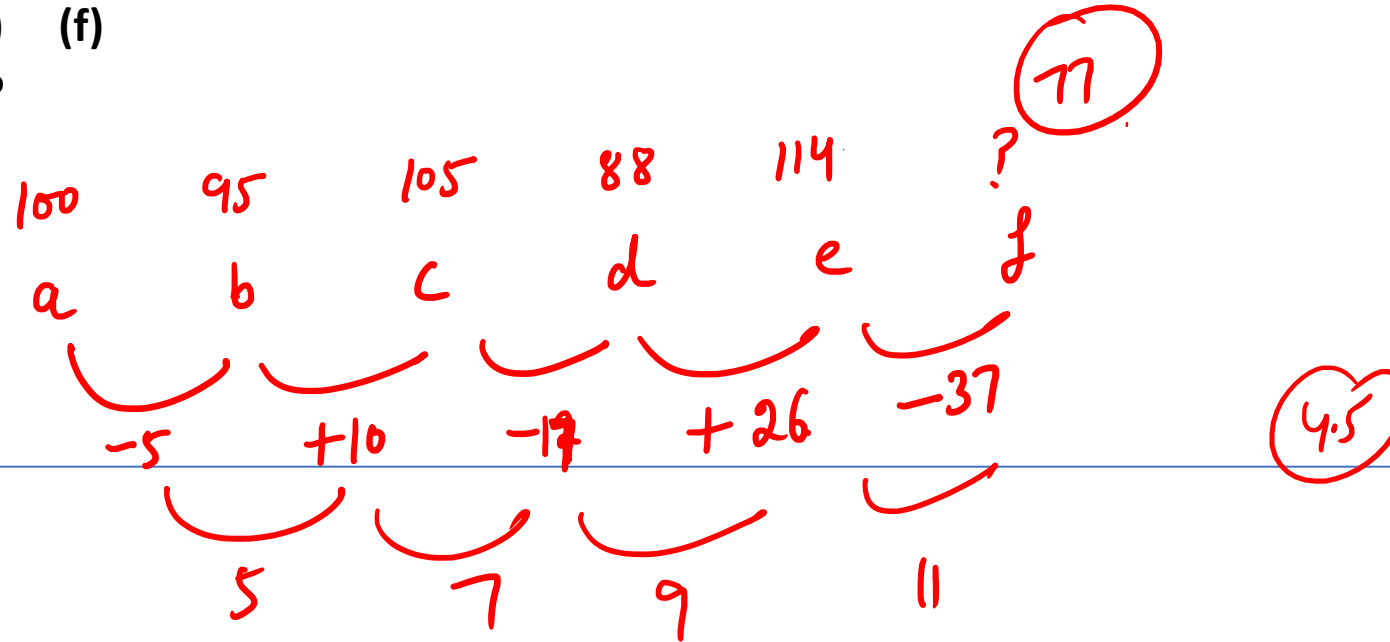
[a] 67

[b] 87

[c] 77

[d] 74

[e] 81



RBI Grade B  
2022



A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.19) If a new series is made following the same pattern of the above series, where (a) is the third term, (b) is the fourth term, (c) is the fifth term and so on. Then find the second term of such a series.

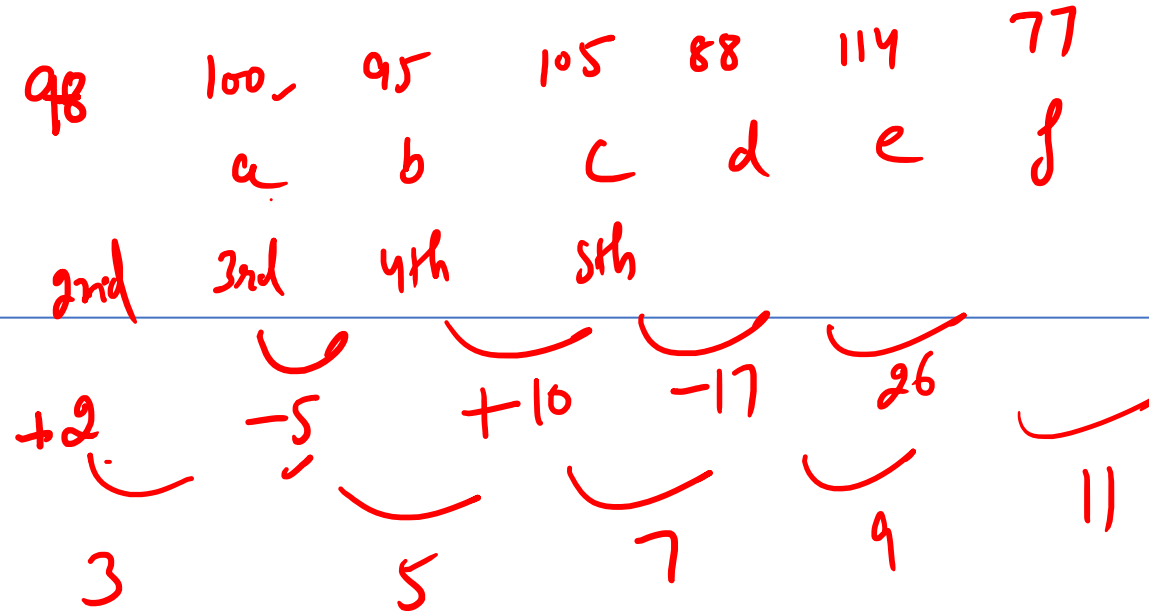
[a] 99

[b] 98

[c] 102

[d] 111

[e] None of the above



A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.20) What minimum number should be added to the 'f+20' to get to the nearest perfect square.

[a] 4

[b] 1

[c] 7

[d] 3

[e] 6

$$77 + 20 = 97 + \underline{3} \qquad \underline{100}$$



Direction (21 – 22): Read the following information carefully and answer the questions based on it. There is a number series given to you that follows a certain pattern.

Series 1. (P), (Q), (R), (S), (T), 3193

Following facts are also known about the variables in the series.

- Value of P is the smaller root of the equation,

$$P^2 - 116P + 228 = 0$$

- $Q = (A/13 + 1)$

- $R = [\text{LCM of } (A, B) / \text{HCF of } (42, 77)] - 53$

- $S = 2 \times (R + 28) - \text{HCF of } (A, B)$

- $T = 150\% \text{ of } (S + 3A + 7B) - 51$

- $(A \times B) = 546$ , Where  $B > 5$  and  $A > B$

- $3A + 15B = 339$

Home Work  
↓  
Comment





**Q21. If there is another series that starts with 50% of  $(S - R)$ , follow the same pattern as that of series 1, and then find the 4<sup>th</sup> element of the series**

- a) 2017
- b) 6097
- c) 1017
- d) 253
- e) None of these

**Q22. If there is another sequence  $(R), (S), 380, 1080, (?)$ , then find the value of the question mark  $(?)$ .**

- a) 2040
- b) 2080
- c) 1980
- d) 2240
- e) None of these



Thank You



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